

AMENDMENTS TO CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A cyclonic fluid separator for separating condensable, liquid and/or solid components from a fluid mixture, the separator comprising an upstream fluid inlet section in which the fluid mixture is accelerated to a near sonic or supersonic velocity to expand and cool the fluid mixture such that one or more condensable fluid components are liquefied and/or solidified, a downstream separation section in which condensables depleted and condensables enriched fluid fractions are separated and fed into separate outlets, and a tubular midstream vortex generation section comprising a plurality of tilted wings, the wings having tips and the midstream vortex generation section having a region or the wing tips, and the ~~having~~ wing tips that are located at a spacing S less than $0.2 W$ from the inner surface of the tubular midstream vortex generation section, which has an internal width W in the region of the wing tips.
2. (Cancelled)
3. (Currently Amended) The cyclonic fluid separator of claim 1, wherein the wing tips are located in a ~~rotational~~ rotationally symmetrical configuration relative to a central axis of the tubular midstream vortex generation section.
4. (Currently Amended) The cyclonic fluid separator of claim 12, wherein a pair of tilted delta-shaped wings protrude from the inner surface of the tubular midstream vortex generation section in a ~~rotational~~ rotationally symmetrical configuration relative to ~~the~~ a central axis of the tubular midstream vortex

generation section and such that the wing tips are located at substantially diametrically opposite locations relative to said central axis.

5. (Currently Amended) The cyclonic fluid separator of claim 3, wherein ~~the~~a distance (D) between the wing tips is between $0.6W$ and $0.99W$, ~~more particularly between $0.8W$ and $0.98W$.~~

6. (Currently Amended) The cyclonic fluid separator of claim 12, wherein three tilted delta shaped wings protrude from the inner surface of the tubular midstream vortex generation section in a ~~rotational~~ rotationally symmetrical configuration relative to ~~the~~a central axis of the tubular midstream vortex generation section and such that the wing tips are located at angular intervals of substantially 120 degrees relative to said central axis.

7. (Currently Amended) The cyclonic fluid separator of claim 1, wherein at least two delta-shaped wings are mounted at regular angular intervals on an elongate wing carrier body which is substantially co-axial to ~~the~~a central axis of the tubular midstream vortex generation section.

8. (Currently Amended) The cyclonic fluid separator of claim 12, wherein a corrugated tubular vortex finder is arranged within the downstream separation section of the separator and a condensables depleted fluid outlet is connected to the interior of the vortex finder and a condensables enriched fluid outlet is connected to an annular space between the outer surface of the tubular vortex finder and the inner wall of the downstream separation section of the separator.

9. (Currently Amended) The cyclonic fluid separator of claim 87, wherein the orientation of the corrugated tubular vortex finder is adaptable relative to the central axis of the tubular midstream section of the separator.

10. (Currently Amended) The cyclonic fluid separator of ~~any preceding~~ claim 7, wherein the wing carrier body extends through a throat section in the ~~tubular~~upstream fluid inlet section of the separator and comprises in ~~the~~a region of a throat portion of the nozzle a profiled section having a larger cross-axial

surface than the section of the elongate wing carrier body on which the wings are mounted.

11. (Currently Amended) The cyclonic fluid separator of claim 6, wherein the elongate wing carrier body is rotatably mounted within the tubular midstream section of the separator.

12. (New) The cyclonic fluid separator of claim 5, wherein the distance (D) between the wing tips is between $0.8W$ and $0.98W$.